

Caution: For Research Use. This product is intended for animal research only and not for use in humans. Not for human or animal therapeutic or diagnostic use.

Staphylococcus aureus

S. aureus UAMS-1 (Xen40)

Product No.: 119244

Material Provided: 1 Agar Plate

Storage Conditions: -80°C

In vitro Characteristics

Genetic Characteristics

Staphylococcus aureus-Xen40 was derived from the parental strain *S. aureus* UAMS-1, a clinical isolate. *S. aureus*-Xen40 possesses a stable copy of the *Photorhabdus luminescens lux* operon at a single integration site on the bacterial chromosome.

Growth Characteristics

S. aureus-Xen40 grows well in Brain-Heart Infusion (BHI) broth at 37°C under ambient aeration. *S. aureus*-Xen40 may also be grown selectively on LB agar containing 200 µg/mL kanamycin.

Colonial Morphology

On LB agar, *S. aureus*-Xen40 appears as small (~1.5mm), cream-colored, opaque, smooth, circular colonies.

Virulence Factor

Hemolysis: β-hemolysis on TSA + 5% sheep blood

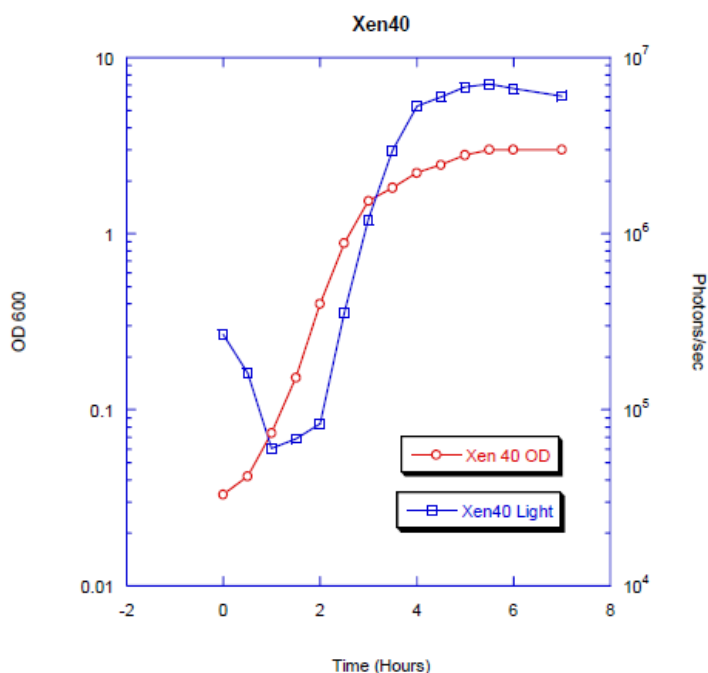
DNase: Positive.

NaCl: Tolerant via growth on Mannitol Salts Agar.

Coagulase: Positive in 24hrs (parental).

Growth Curve

Log-phase growth can be achieved after 1.5 to 3 hours of subculture in BHI broth at 37°C, shaking at 200 rpm. For the above broth culture conditions, an absorbance measurement at 600nm (against a LB blank) of 1 is roughly equivalent to 3x10⁸ cfu/mL of *S. aureus*-Xen40 and the relative light intensity is 0.013 photons/sec/cell.



Product Information

Warranty

PerkinElmer warrants that cells will be viable upon shipment from PerkinElmer for a period of thirty days, provided they have been properly stored and handled during this period.

Disclaimers

This product is sold for *in vivo* animal research use only and is not for use in any diagnostic procedures. Excluding purchases by authorized PerkinElmer distributors, this product is sold for use by the original purchaser and is not for resale.

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